

WHAT IS CLAIMED IS

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1. A write and/or erase method adapted to a storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising the steps 10 of:

15 (a) setting a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium depending on the write and/or erase power.

Single  
Copy

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2. The write and/or erase method as 20 claimed in claim 1, wherein said step (a) decreases the write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase 25 power.

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3. The write and/or erase method as claimed in claim 1, wherein said step (a) also sets an off-track detection time constant depending on the write and/or erase power.

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4. The write and/or erase method as  
claimed in claim 1, wherein said step (a) also sets  
a shock detection time constant for detecting an  
external vibration or shock depending on the write  
5 and/or erase power.

10 5. A write and/or erase method adapted to  
a storage apparatus having a function of changing a  
write and/or erase power of a light beam with  
respect to a recording medium, comprising the steps  
of:

15 (a) setting a write and/or erase slice level  
for detecting an external vibration or shock applied  
on the storage apparatus with respect to a track on  
the recording medium depending on the write and/or  
erase power.

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6. The write and/or erase method as  
25 claimed in claim 5, wherein said step (a) decreases  
the write and/or erase slice level depending on an  
increase of the write and/or erase power or,  
increases the write and/or erase slice level  
depending on a decrease of the write and/or erase  
30 power or,

35 7. The write and/or erase method as  
claimed in claim 5, wherein said step (a) also sets  
an off-track detection time constant depending on

the write and/or erase power.

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8. The write and/or erase method as claimed in claim 5, wherein said step (a) also sets a shock detection time constant for detecting an external vibration or shock depending on the write and/or erase power.

10 and/or erase power.

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a storage apparatus having a function of changing a  
write and/or erase power of a light beam with  
respect to a recording medium, comprising the steps  
of:

20 (a) setting at least one parameter selected from write and/or erase parameters depending on the write and/or erase power, said write and/or erase parameters including a write and/or erase slice level for detecting an off-track of the light beam  
25 with respect to a track on the recording medium, an off-track detection time constant, a write and/or erase slice level for detecting an external vibration or shock applied on the storage apparatus, and a shock detection time constant for detecting  
30 the external vibration or shock.

35 10. The write and/or erase method as  
claimed in claim 9, wherein a dependency of the  
write parameters with respect to the write power is

different from a dependency of the erase parameters with respect to the erase power.

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11. The write and/or erase method as claimed in claim 9, further comprising the step of:

10 (b) judging a type of the recording medium, said step (a) being carried out when said step (b) judges that the recording medium is a high-density recording medium.

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12. A storage apparatus having a function of changing a write and/or erase power of a light beam with respect to a recording medium, comprising:

20 (a setting section) for setting a write and/or erase slice level for detecting an off-track of the light beam with respect to a track on the recording medium depending on the write and/or erase power.

*Mark  
Meier*

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13. The storage apparatus as claimed in claim 12, wherein said setting section decreases the 30 write and/or erase slice level depending on an increase of the write and/or erase power or, increases the write and/or erase slice level depending on a decrease of the write and/or erase power. 3

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14. The storage apparatus as claimed in  
claim 12, wherein said setting section also sets an  
off-track detection time constant depending on the  
write and/or erase power.

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10 15. The storage apparatus as claimed in  
claim 12, wherein said setting section also sets a  
shock detection time constant for detecting an  
external vibration or shock depending on the write  
and/or erase power.

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20 16. A storage apparatus having a function  
of changing a write and/or erase power of a light  
beam with respect to a recording medium, comprising:

25 a setting section for setting a write and/or  
erase slice level for detecting an external  
vibration or shock applied on the storage apparatus  
with respect to a track on the recording medium  
depending on the write and/or erase power.

*slice  
level*

30 17. The storage apparatus as claimed in  
claim 16, wherein said setting section decreases the  
write and/or erase slice level depending on an  
increase of the write and/or erase power or,  
increases the write and/or erase slice level  
35 depending on a decrease of the write and/or erase  
power.

18. The storage apparatus as claimed in  
claim 16, wherein said setting section also sets an  
off-track detection time constant depending on the  
write and/or erase power.

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19. The storage apparatus as claimed in  
10 claim 16, wherein said setting section also sets a  
shock detection time constant for detecting an  
external vibration or shock depending on the write  
and/or erase power.

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20. A storage apparatus having a function  
of changing a write and/or erase power of a light  
20 beam with respect to a recording medium, comprising:

a setting section for setting at least one  
parameter selected from write and/or erase  
parameters depending on the write and/or erase power,  
said write and/or erase parameters including a write  
25 and/or erase slice level for detecting an off-track  
of the light beam with respect to a track on the  
recording medium, an off-track detection time  
constant, a write and/or erase slice level for  
detecting an external vibration or shock applied on  
30 the storage apparatus, and a shock detection time  
constant for detecting the external vibration or  
shock.

*single  
near*

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21. The storage apparatus as claimed in <sup>?</sup>

claim 20, wherein a dependency of the write parameters with respect to the write power is different from a dependency of the erase parameters with respect to the erase power.

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22. The storage apparatus as claimed in  
10 claim 20, further comprising:

a judging section for judging a type of the recording medium,

15 said setting section setting said at least one parameter when said judging section judges that the recording medium is a high-density recording medium.

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